

ABSTRACT

An automated sample-on-solid-support processing system includes a treatment solution supply subsystem which feeds solvent to a dispenser to dispense a measured amount of treatment solution to each well of a multi-well plate. The dispenser measures the solution within a fill container having a plurality of reservoir wells corresponding to the number of wells in the multi-well plate. The fill container is contained within a reservoir chamber that is filled with an excess of solution. Each reservoir well is surrounded by a plurality of bores which drains excess solution from the top of the fill container so that a precise amount of solution is left in the reservoir wells when solution is drained out of the reservoir chamber. Gas pressure is introduced into the reservoir chamber to force the solution out of the reservoir well through a bundle of tubes, with one tube per well, and into the wells of the multi-well plate.

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